

# Comparisons of Job Characteristics

**Focus Occupation:** Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

**Associated Occupation:** Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

|    |  |
|----|--|
| << | Focus occupation element is much lower             |
| <  | Focus occupation element is lower                  |
| 0  | Focus occupation element is at a similar level     |
| >  | Focus occupation element is at a higher level      |
| >> | Focus occupation element is at a much higher level |

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 68

**Focus Occupation:** Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)  
**Associated Occupation:** Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |  |
|--|---------------------------------|--------------------------------|---------------------------|--------------------------------|--|
| Computers and Electronics                      | 8.4                             | 17.5                           | 15.4                      | <                              | Expanded education and/or training may be required     |
| Mechanical                                     | 6.8                             | 16.4                           | 12.4                      | <<                             | Extensive education and/or training may be required    |
| Engineering and Technology                     | 5.7                             | 11.7                           | 9.4                       | <                              | Expanded education and/or training may be required     |
| Design   | 5.2                             | 9.6                            | 7.6                       | <                              | Expanded education and/or training may be required     |
| Telecommunications                             | 3.9                             | 6.9                            | 19.3                      | >>                             | Current knowledge level is likely more than sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 86

**Focus Occupation:** Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)  
**Associated Occupation:** Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |                                       |
|---|---------------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------------------|
| Quality Control Analysis                    | 5.9                             | 13.3                           | 11.5                      | <                              | A higher skill level may be required  |
| Repairing                                   | 3.4                             | 13.3                           | 10.6                      | <                              | A higher skill level may be required  |
| Operation Monitoring                        | 6.6                             | 12.6                           | 11.4                      | <                              | A higher skill level may be required  |
| Troubleshooting                             | 4.5                             | 12.0                           | 11.8                      | 0                              | Current skill level may be sufficient |
| Equipment Maintenance                       | 3.5                             | 11.1                           | 10.3                      | 0                              | Current skill level may be sufficient |
| Equipment Selection                         | 3.3                             | 10.5                           | 9.2                       | <                              | A higher skill level may be required  |

|                   |     |     |     |    |  |
|-------------------|-----|-----|-----|----|--|
| Installation      | 1.7 | 9.3 | 7.7 | <  | A higher skill level may be required                         |
| Technology Design | 2.6 | 6.3 | 3.8 | << | Extensive development of skills in this area may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

| Abilities   |                                 | Similarity of Focus Occupation to Associated Occupation: 83 |                           |                                |  |
|---|---------------------------------|---|---------------------------|--------------------------------|--|
| Focus Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)<br>Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) |                                 |   |                           |                                |  |
| Associated Occupation's Key Abilities Elements  | Average Rating, All Occupations | Associated Occupation's Rating                              | Focus Occupation's Rating | Evaluation of Focus Occupation |  |
| Finger Dexterity  | 7.6                             | 12.9  | 12.0                      | 0                              | Current ability level may be sufficient            |
| Category Flexibility  | 9.0                             | 11.9  | 8.6                       | <<                             | Extensive improvement in abilities may be required |
| Manual Dexterity  | 6.5                             | 11.2  | 11.4                      | 0                              | Current ability level may be sufficient            |
| Flexibility of Closure  | 7.8                             | 11.0  | 8.8                       | <                              | Some improvement in abilities may be required      |
| Perceptual Speed  | 7.4                             | 10.7  | 9.1                       | <                              | Some improvement in abilities may be required      |
| Visual Color Discrimination   | 6.4                             | 10.6  | 12.9                      | >                              | Current ability level is likely sufficient         |
| Hearing Sensitivity   | 5.6                             | 9.3   | 9.0                       | 0                              | Current ability level may be sufficient            |
| Speed of Closure  | 5.9                             | 8.8   | 6.4                       | <<                             | Extensive improvement in abilities may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

| Activities that Both Occupations Have in Common   |                         | Similarity of Focus Occupation to Associated Occupation: 91 |
|---|-------------------------|---|
| <b>Focus Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)</b><br><b>Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)</b> |                         |   |
| Work Activities   | Exclusivity of Activity |   |
| Analyze operation of malfunctioning electrical or electronic equipment  | 68                      |   |
| Calibrate or adjust electronic equipment or instruments to specification  | 67                      |   |
| Communicate technical information   | 4                       |   |
| Conduct sequential tests to locate electronic malfunction   | 77                      |   |
| Determine installation, service, or repair needed   | 58                      |   |
| Distinguish colors  | 44                      |   |
| Fabricate, assemble, or disassemble manufactured products by hand   | 11                      |   |
| Install electronic equipment, components, or systems  | 62                      |   |
| Install electronic power, communication, control, or security equipment or systems  | 76                      |   |
| Install/connect electrical equipment to power circuit   | 57                      |   |
| Instruct customers in product installation, use, or repair  | 82                      |   |

|   |    |
|---|----|
| Modify electrical or electronic equipment or products                     | 74 |
| Obtain information from clients, customers, or patients                   | 40 |
| Perform safety inspections in industrial, manufacturing or repair setting | 32 |
| Plan layout of electrical/electronic equipment installation               | 89 |
| Plan or organize work   | 51 |
| Read blueprints   | 10 |
| Read schematics   | 34 |
| Read technical drawings   | 7  |
| Read work order, instructions, formulas, or processing charts             | 9  |
| Repair electronic components, equipment, or systems                       | 74 |
| Repair or replace electrical wiring, circuits, fixtures, or equipment     | 49 |
| Replace electronic components   | 63 |
| Solder electrical or electronic connections or components                 | 55 |
| Test electrical/electronic wiring, equipment, systems or fixtures         | 54 |
| Test electronic or electrical circuit connections                         | 66 |
| Understand detailed electronic design specifications                      | 70 |
| Understand service or repair manuals                                      | 40 |
| Understand technical information for electronic repair work               | 76 |
| Understand technical operating, service or repair manuals                 | 6  |
| Use computers to enter, access or retrieve data                           | 3  |
| Use electrical or electronic test devices or equipment                    | 40 |
| Use hand or power tools   | 2  |
| Use interpersonal communication techniques                                | 10 |
| Use precision tools in electronics repair                                 | 71 |
| Use soldering equipment   | 44 |
| Use voltmeter, ammeter, or ohmmeter                                       | 52 |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: n/a

**Focus Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)**  
**Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)**

### Tools and Technologies

### Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.